

WHAT IS CLAIMED IS:

1. A mobile radio communication apparatus for use  
in a mobile radio communication system which includes  
base stations, mobile radio communication apparatuses  
to be connected to the base stations over radio  
channels, and in which each of the base stations  
broadcasts a system ID number for identifying the base  
station, said apparatus comprising:

memory means for storing system ID numbers,  
priority data items associated with the system ID  
numbers and representing priorities assigned to the  
base stations, each to be used to seize one base  
station, and information representing types of service  
the base stations offer in a geographical area in which  
the base stations are operating;

receiving means for receiving the broadcasted  
system ID number;

first seizing means for seizing one of the base  
stations operating in the geographical area and having  
one of the received system ID numbers, in accordance  
with the priority data items, and for setting the  
apparatus in an idle state;

input means for inputting a user's request for a  
desired type of service while the apparatus remains in  
the idle state;

decision means for referring to the contents of  
said memory means when the user's request is input to

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second seizing means for seizing, based on the  
5 priority data items, one of the base stations offering  
the desired type of service in the geographical area  
including the base station seized by said first seizing  
means, when said decision means determines that the  
base station seized by said first seizing means does  
0 not offer the desired type of service.

3. The apparatus according to claim 1, wherein  
20 said memory means stores frequency data items  
associated with the respective base stations, for use  
in seizing base stations, and said second seizing means  
seizes a base station offering the user's request  
service type in accordance with the frequency data  
25 items when said decision means determines that the base  
station seized by said first seizing means is not  
offering the type of service the user has requested.

4. The apparatus according to claim 3, further comprising transmitting means for transmitting a service request signal generated from the user's request, to the base station seized by said second seizing means.

5. A mobile radio communication apparatus for use in a mobile radio communication system which includes base stations, mobile radio communication apparatuses to be connected to the base stations over radio channels, and in which each of the base stations broadcasts a system ID number for identifying the base station, said apparatus comprising:

memory means for storing system ID numbers and information that is associated with the system ID numbers and represents types of service the base stations offer, in a geographical area in which the base stations are operating;

receiving means for receiving the broadcasted system ID number;

first seizing means for seizing one of the base stations operating in the geographical area and having one of the received system ID numbers, which has prescribed priority, and setting the apparatus in an idle state;

input means for inputting a user's request for a desired type of service while the apparatus remains in the idle state;

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decision means for referring to the contents of  
said memory means when the user's request is input to  
said input means, thereby determining whether the base  
station seized is offering the type of service the user  
5 has requested; and

second seizing means for seizing one of the base  
stations offering the desired type of service in the  
geographical area including the base station seized by  
said first seizing means, when said decision means  
10 determines that the base station seized by said first  
seizing means does not offer the desired type of  
service.

6. The apparatus according to claim 5, wherein  
said memory means stores frequency data items  
15 associated with the respective base stations, for use  
in seizing base stations, and said second seizing means  
seizes a base station offering the user's request  
service type in accordance with the frequency data  
items when said decision means determines that the base  
20 station seized by said first seizing means is not  
offering the type of service the user has requested.

7. The apparatus according to claim 5, wherein  
when said second seizing means has failed to seize the  
base station of the lowest priority, said second  
25 seizing means receives a system ID number, specifies a  
geographical area associated with the received system  
ID number, seizes one of the base stations operating in

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the specified geographical area, and sets the apparatus into the idle state.

8. A mobile radio communication apparatus for use in a mobile radio communication system which includes base stations , mobile radio communication apparatuses to be connected to the base stations over radio channels, and in which each of the base stations broadcasts a system ID number for identifying the base station, said apparatus comprising:

memory means for storing system ID numbers, priority data items associated with the system ID numbers and representing priorities assigned to the base stations, each to be used to seize one base station, and information representing types of service the base stations offer in a geographical area;

first seizing means for receiving one of the system ID numbers broadcasted from the base stations, in accordance with the priority data items stored in said memory means, for seizing one of the base stations to which the system ID number received is assigned, and for setting the apparatus in an idle state;

input means for inputting a user's request for a desired type of service while the apparatus remains in the idle state;

decision means for referring to the contents of said memory means when the user's request is input to said input means, thereby determining whether the base

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station seized is offering the type of service the user has requested; and

second seizing means for seizing one of the base stations offering the desired type of service, when  
5 said decision means determines that the base station seized by said first seizing means does not offer the desired type of service.

9. The apparatus according to claim 8, wherein  
10 said memory means stores frequency data items associated with the respective base stations, for use in seizing base stations, and said second seizing means seizes a base station offering the user's request service type in accordance with the frequency data items when said decision means determines that the base  
15 station seized by said first seizing means is not offering the type of service the user has requested.

10. The apparatus according to claim 8, wherein  
20 when said second seizing means has failed to seize the base station of the lowest priority, said second seizing means receives a system ID number, specifies a geographical area associated with the received system ID number, seizes one of the base stations operating in the specified geographical area, and sets the apparatus into the idle state.

25 11. A mobile radio communication apparatus for use in a mobile radio communication system which includes base stations, mobile radio communication apparatuses

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to be connected to the base stations over radio channels, and in which each of the base stations broadcasts a control signal with a system ID number for identifying the base station, said apparatus comprising:

memory means for storing system ID numbers, priority data items representing priorities of the base stations and geographical area data items representing areas in which the base stations are located, said system ID numbers, said priority data items and said geographical area data items being mutually associated;

receiving means for receiving the broadcasted control signal, the signal including the system ID number assigned to a base station;

detecting means for detecting the system ID number, from the received control signals;

area-designating means for designating, based on the detected system ID number, a geographical area data item representing an area in which the base station connected to the mobile radio communication apparatus is located;

seizing means for detecting the system ID number assigned to the base station having a higher priority in the area, based on the geographical area data item designated by said area-designating means, for seizing the base station, and for setting the apparatus in an idle state;

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5        decision means for referring to the contents of  
said memory means when the user's request is input to  
said input means, thereby determining whether the base  
station seized is offering the type of service the user  
has requested; and

12. The apparatus according to claim 11, further comprising transmitting means for transmitting a service request signal generated from the user's request, to the base station seized by said seizing means.

13. The apparatus according to claim 11, wherein when said second seizing means has failed to seize the base station of the lowest priority, said seizing means receives a system ID number, specifies a geographical area associated with the received system ID number, seizes one of the base stations operating in the specified geographical area, and sets the apparatus



into the idle state.

14. A mobile radio communication apparatus for use in a mobile radio communication system which includes base stations, mobile radio communication apparatuses to be connected to the base stations over radio channels, and in which each of the base stations broadcasts a system ID number for identifying the base station, said apparatus comprising:

setting means for seizing one of the base stations in accordance with the broadcasted system ID numbers and setting the apparatus in an idle state;

input means for inputting a user's request for a desired type of service while the apparatus remains in the idle state; and

control means for causing said setting means to seize a base station offering the desired type of service which is described in the user's request input to said input means.

15. The apparatus according to claim 14, further comprising transmitting means for transmitting a service request signal generated from the user's request, to the base station seized based on said control means.

16. The apparatus according to claim 14, wherein said setting means comprises:

memory means for storing system ID numbers, priority data items representing priorities of the base

090791-051301  
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stations and geographical area data items representing areas in which the base stations are located, said system ID numbers, said priority data items and said geographical area data items being mutually associated;

5       receiving means for receiving control signals broadcasted from the base stations, each including the system ID number assigned to a base station;

      detecting means for detecting the system ID numbers, from the received control signals;

10       area-designating means for designating, based on the detected system ID number, a geographical area data item representing an area in which the base station connected to the mobile radio communication apparatus is located; and

15       seizing means for detecting the system ID number assigned to the base station having a higher priority in the area, based on the geographical area data item designated by said area-designating means, for seizing the base station, and for setting the apparatus in an  
20       idle state.

17. The apparatus according to claim 16, wherein said control means comprises:

      decision means for referring to the contents of said memory means when the user's request is input to  
25       said input means, thereby determining whether the base station seized is offering the type of service the user has requested; and

09879191-061301

seizing means for seizing, based on the priority data items, one of the base stations offering the desired type of service in the geographical area including the base station seized, when said decision means determines that the base station seized does not offer the desired type of service.

18. The apparatus according to claim 17, wherein when said second seizing means has failed to seize the base station of the lowest priority, said seizing means receives a system ID number, specifies a geographical area associated with the received system ID number, seizes one of the base stations operating in the specified geographical area, and sets the apparatus into the idle state.

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